Appl. No. 10/814,3_0
Amdt. Dated September 29, 2005
Reply to Office Action of June 6, 2005

CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 (currently amended). A method for operating an aircraft early warning system, which comprises:

processing transmitted data on-line transmitted from an aircraft to a ground station and the data being only derived from systems on board the aircraft;

displaying cockpit, aircraft, and environmental parameters; and

making a change to minimize risk and prevent accidents.

- 2 (original). The method according to claim 1, which comprises alerting an on-board crew-member and optimizing workloads to minimize the risk.
- 3 (original). The method according to claim 1, which comprises:

Appl. No. 10/814,310

Amdt. Dated September 29, 2005

Reply to Office Action of June 6, 2005

extracting further data containing "what-if" scenarios;

querying a plurality of pre-stored events and detecting a hazardous event with simulation; and

assessing a risk of an aircraft operation and determining a probability of a reoccurrence of a detected event.

4 (original). The method according to claim 3, which comprises displaying and replaying the detected event in a three-dimensional view.

5 (original). The method according to claim 3, which comprises identifying, evaluating and implementing alternatives for mitigating the risk.

6 (original). The method according to claim 1, which comprises alerting ground staff if an emergency situation occurs.

7 (original). The method according to claim 6, which comprises setting landing priorities to expedite a safe landing.

Appl. No. 10,814,310 Amdt. Dated September 29, 2005 Reply to Office Action of June 6, 2005

8 (original). The method according to claim 6, which comprises sending instructions to an aircraft auto-flight system for assuming control of the aircraft.

9 (original). The method according to claim 6, which comprises sending instructions to an aircraft auto-flight system for maneuvering the aircraft.

10 (original). The method according to claim 6, wherein the ground staff assumes remote operation of the aircraft.

11 (original). The method according to claim 1, which further comprises transmitting aircraft data and/or voice to a secure ground storage and distribution unit for backing up information contained in aircraft black boxes.

12 (original). The method according to claim 11, which further comprises distributing the data from the black boxes to at least one of an airline and federal personal for at least one of security analysis and flight operational quality assurance analysis.

13 (currently amended). A computer-readable computer-readable medium having program computer-executable

Appl. No. 10/814,310

Amdt. Dated September 29, 2005

Reply to Office Action of June 6, 2005

instructions for performing a method for providing aircraft early warnings, the method comprising:

processing transmitted data on-line transmitted from an aircraft to a ground station and the data being only derived from systems on board the aircraft;

displaying cockpit and aircraft parameters and environment; and

making a change to minimize a risk and prevent accidents.

14 (currently amended). The computer readable computer-readable medium of claim 13, further comprising further program instructions for alerting an on-board crew and optimizing workloads to minimize the risk.

15 (currently amended). The computer readable computer-readable of claim 13, further comprising further program instructions for:

extracting further data containing "what-if" scenarios;

querying a plurality of pre-stored events and detecting a hazardous event with simulation; and

Appl. No. 10/814,310
Amdt. Dated September 29, 2005
Reply to Office Action of June 6, 2005

assessing a risk of an aircraft operation and determining a probability of a reoccurrence of a detected event.

16 (currently amended). The computer readable computerreadable of claim 15, further comprising further program
instructions for displaying and replaying the detected event
in a three-dimensional view.

17 (currently amended). The computer readable computerreadable of claim 15, further comprising further program
instructions for identifying, evaluating and implementing
alternatives for mitigating the risk.

18 (currently amended). The computer readable computer-readable medium of claim 13, further comprising further program instructions for alerting ground staff if an emergency situation, occurs.

19 (currently amended). The computer readable computer-readable medium of claim 18, further comprising further program instructions for setting landing priorities to expedite a safe landing.

Appl. No. 10/814,310 Amdt. Dated September 29, 2005 Reply to Office Action of June 6, 2005

20 (new). The method according to claim 1, which further comprises transmitting the data using a satellite network.

21 (new). The method according to claim 1, which further comprises transmitting the data using a wireless IP network.